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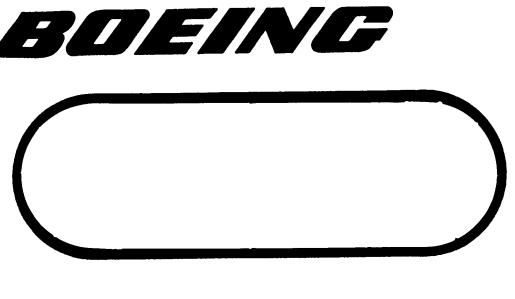


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SEATTLE, WASHINGTON

CODE IDENT NO. 81205

	NUMBER D2-14787-2 TITLE Flight Test Missile Estimated Ma	ss Date (F-180) -
	Boeing Components	33 34 4 (1-200)
	MODEL NO. XSM-80 CONTRACT	A201/61/21 080
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	Si-co P. P. Labes	8/1/63
	PREPARED BY Paul Labes SUPERVISED BY Properties Supervised By	
	SUPERVISED BY John HEyler	8/1/63 8/1/63 8/1/63
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INTRODUCTION

Subsequent to the release of D2-14787-1, STL verbally directed the discontinuance of future Estimated (F-180) reports. Official BSD contractual change notification has not followed, although STL still confirms this direction. (Telecon: D. S. Askins - STL/C. O. Bailey - Boeing, 24 July 1963.) In compliance with the still existing AF O4(647)-289 contractual requirement this report has been prepared and submitted.

This document has been prepared to serve as a mass data summary of the Boeing Responsibility Hardware in the Minuteman Flight Test Program. It provides the pertinent Estimated (F-180) weight, balance and inertia data, as released officially by the Boeing Minuteman Weight Group.

Volume I presented mass data for Flight Test Missiles 437 thru 442. This document (Volume II) presents mass data for Flight Test Missiles 443 thru 445 and Flight Test Missiles 446 thru 448.

FIN 448 represents the final flight test missile in the -289 contract. Therefore this document will be the final release of the Estimated (F-180) reports.

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1. FIN 443 THRU FIN 445

A review of the projected FIM \$43-\$45 Estimated (F-180) weight data determined that only minor changes will occur over the released FIM \$37-\$42 data (Ref: D2-14787-1). Therefore all data pertinent to FIM \$43-\$45 are referenced to D2-14787-1.

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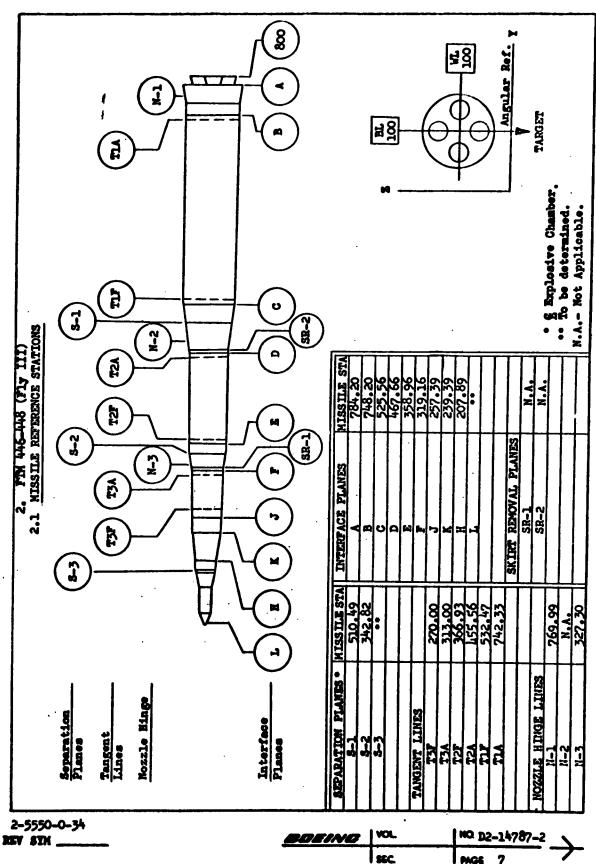
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** STACE ENGINE SILO			AFRO	90-1		251.00	04.60	116.00		
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## INTERSTAGE 2-3 *** SILO 2-25 **			AENO	•		293.19	108-11	119.14		
## 15 10 10 10 10 10 10 10		•	BASE	•		326-10	92-16	104.30		•
### 180	^	į		2.25	60.701	131.51	99.62	68.60		•
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## STISOMED ### STICE *** INTERSTACE 2-3 1.00	•		DASE	5.27		331.75	64.66	99.86		
## 18			\$110							
## INCLUDED TO THE PROPERTY OF		JETTI SONED	AERO							
** INTERSTACE 2-3 ** INTERSTACE			JE11							
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## 2ND STAGE ENGINE AERO		AFT	2110	90.1		351.19	19.66	94.02		
## 200 STAGE ENGINE SILO	;		AERO	4.75		351.24	16.66	75.26		C
## 197.50 1.92	÷	STAGE ENGIN		94	71.00	410-17	102.80	126.03		?
### STATESTAGE 1-2 FIND FIND FIND FIND FIND FIND FIND			AFRO	1.92		427.87	105.51	123.99		
## INTERSTACE 1-2 **INTERSTACE 1-3 **INTERSTAC			BASE	1.98		480.51	91.47	105.92		
### FWD SILO +.45 +488.21 99.43 101.86 .001 BASE +.78 +94.88 101.95 106.13 .001 SILO	11) !	1	377.50	489.29	100.53	103.73		Ģ
### PARTISONED AERO 6-41 494-86 101-11 102-83 .0001 .000			2110	4.45		488.21	99.43	101.88		
## SKITTSONED ASSE 4.78			AERO	6.41	•	411.86	101-11	102.83		Ģ
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47 INTERSTACE 1-2 AFT AFT AFT AFR AFR AFR AFR AFR		PORTION	BASE							
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## 157 STAGE ENCINE 1-43 129.56 666.94 96.59 122.63 .010 .	-			1.46	76-91	618.31	61°66	101.57	•	?
## 187 STACE ENCINE \$110			AFRO			\$19.65	96.88	115.34		
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SKIRF \$110 306.92 766.95 100.45 102.45 .071 AERO 2.99 767.10 100.00 100.15 .004 MISSILE \$10 37.30 1707.16 461.97 99.72 104.95 .243 AERO 29.28 450.93 100.63 106.07 .005 BASE 60.41 673.43 99.84 101.71 .010			BASE	5.33	,	188.06	100.60	101.07		•
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29.28 450.93 100.63 106.07 .003 60.41 673.43 99.84 101.71 .010			2110	37.30		615.87	1001	105.46		~
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34 MEAT PROTECTION												
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36 39 ACCELEROMETER SUPPORT												
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42 DEFLECTOR + STRUC.												
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47 CONTINGENCY												
40 UMACCOUNTED												
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	11.4			117.20					•••	289.86	86.99	117.28
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101ECT10N	1.82	284.60	110.54	117.93	14.1	290.49	111.22	118.91	3.73	269.49	111.22	116.91
INSTAUMENTATION EQUIPMENT + WINE BASE WEAT PROTECTION EQUIPMENT PROTECTION	27.76 8.53	303.57	90.62	113.72	2.83	324.03	91.03	\$1.03 109.45	27.76	303.57	90.72	113.72
BASE MEAT PROJETT. SILD MEAT PROTECTION DESTRUCT PROVISION	2.00	302.84	109.46	117.21					2.80	302.84	109.46	117.2
G+C INSTALLATION CABLE PROV + INSTL PRO BASE HEAT PROTECTION SILO HEAT PROTECTION	6.80 3.51	311.06	110.22	112.59	•	330.96	330.98 110.72	111.37	4.20	331.22	110.22	112.59
STRUCTURE UNJETTISONED SEPARATION MECH- MEAT PROTECTION SILO EXTERNAL AERO	•	296.79	100.00	298.79 100.00 100.00					•	298.79	298.79 100.00	100.00
SASE SILO.INTERNAL JETTISONED SEPAR. MECH PEEL MEAT PROTECTION SILO AERO					·							
336 ACCELEROMETER SUPPORT 35 MEAT DEFLECTOR 1 STRUC. 43 BASE MEAT PROTECTION 44 SILG HEAT PROTECTION 45 RISCELLANEOUS		340.81	100-00	100.00	• 50		100.00	00*001	 	336.74	00.001	100-00
CONTINGENCY												
SI COLUMN TOTAL SECT 44	74.44	307.56	97.20	112.63	•••	311-14	100.30	311.16 100.30 113.61	11.13	307.86		97.46 112.8
SECTION TOTAL						Pooling	D2-14787-2	2 Page 11				

2.3 BOEING MEIGHT RESPONSIBILITY	2.3.4 Sect	Section 45 Ped				*				*		
MISSILE BY 446-448 DATE 7-24-63		UNEXPENDED	60			EXPENDED	٥			TOTAL		
	7	30	90	9 9 >	7	9) H	93 1	90 >	5	9 I	1 CC	9 >
LA PORCIONAL LIBITAGE	•								;	122.24	41.44	110.99
• CAPS	6.21	332.24	88.14	119.99					12.0			
MEAT PROTECTION						330.55	88.07	120.61	.20	330.55	18.01	150.61
210		311.10	84-68	119-91	*	330.55	80.88	120.59	3.14	331.20	66.39	120.07
ACRO	3.32	331.07		110.89					3.32	331.07	110.43	
D7 HEAT PROTECTION O	•				:	3	92	119,60	.13		111.30	119.60
\$110						00-166	30	119.60	1.86	331.48	111.18	119.37
	1.35	331.67	111.13	87.411	• • • • • • • • • • • • • • • • • • • •	3			· ·			
Z		;	;	•					12.08	334.83	10.9	117.04
	12.08	484.88 44.64		50.71	*0*	337.60	85.70	114.10	7.	337.60	15.70	114.10
	. 3/	337.00	2.									
						•						
2												
10 G+C 1MSTALLATION									4.17	340.40	112.00	112.10
	4.17	340.40	112-00	112.10	č	340.40	340.40 112.00 112.10	112.10	.57	340.40	112.00	112.10
	• 52	340.40	117.00		•			;				
22 SILO HEAT PROTECTION									3	**		
	84.82	328.54	100-88	100.83					71.0	341.03	40.66	100.0
	4.47	341.03	99.04	100-00					<u>:</u>			
Ĭ					1.92	331.64	100.03		1.92	331.64	100.03	
27 SILD EXICHAL	7.74	331.63	100.03		4.47	331.64	100.03	91.70	12.21	331.64	100.03	60.26
	34.04	329.94	100.16	16.66	5.18	331.62	4.66		71.04	330.18		
32 SEPAR. MECH STAGE												
A MEN TABLEST CO.												
37 0ASE												
38 39 ACCELEROMETER SUPPORT					•							
3												
42 DEFLECTOR + STRUC.												
Ē												
44 CONTINGENCY								•				
44 UMACLUOMICO				•	:			36	162.43	110.62		40.31 103.04
SI COLUMN TOTAL SECT 45 FUD	169.39	330.76	60.29	99.29 103.40	13.61	BC - 1 C B	14.5					
52 SECTION TOTAL												
						7	12-14787-2	-2 Page 12				

No helo	2.3.5 Sect	Section 45 Aft	c			M M M P E N D E D	G			101AL			
6416 7-63-63		UNEAFERD			•				2	1	9	>	-
	7	9 I	9	9 >	3	e E	ور	و د •	=	3		;	
OI RACEMAYS	4.53	349.01	96.46	120.82					4.53	349.01	16.66	120.82	
MEAT PROTECTION					:		.,	193 93		150.14	16.42		
\$11.0		74 036		122.27	•	350-14	16.62	123.22	1.17	-	67.03	122.5	
COVERS + CAPS	3.02		113.17	122.73) 		3.02	350.88	113.17	122.73	
ROTECTION					:		75 511	133 13		150.00	113.37	123.1	
06 5110 0 09 AERO 0	1.49	350.80	113.11	122.72	25	350.80	113.33	123.09	1.64	350.80	113.13	122.75	
THE TAIMENTATION									;	;	;		
	12.46	344.59	91.72	118.76					12.46	344.59	91-72 118	9.6	
16 SILO MEAT PROTECTION 17 DESTRUCT PROVISION													
39 G+C INSTALLATION	-02	347.40	109.60	347.40 109.60 121.50					•00	347.40	109.60	347.40 109.60 121.50	
	,												
22 SILO HEAT PROTECTION										٠			
	42,74	152.87	101.98	102.12					\$2.74		101.98	102.12	
	12.56	344.73	96.57	93.62					12.56	344.73	96.57	93.62	
H					17.1	351, 10	100,001	89.90	1.63	351.30	100.03		
27 SILO EXTERNAL	81.8	351.34 100.03	100.03	90.36	1+:+	351.30	100.03	89.89	12.56	351.32	100.03	90.20	
	3			•									
DA MEAT DEGRECTION													
3													
37 BASE											,		
39 ACCELERONETER SUPPORT	14.25	350.00	98.90	98.90 112.27					14.25	350.00	98.40	98.90 112.27	
40 AT MENT DESIRETION INCTO													
42 DEFLECTOR + STAUC.													
43 BASE HEAT PROTECTION									• .				
44 SILO MEA! PROTECTION 45 MISCELLANEOUS													
47 CONTINCENCY												•	
49 UNACCOUNTED													
SI COLUMN TOTAL SECT 45 AFT	110.20	350.26	99.36	99.36 105.27	19.9	351.22	19.08	92.76	116.01	350.31	99.39	99.39 104.57	
							4	0 7 7 0	44 000	238.42	46.26	14-101-41	
53 SECTION TOTAL SECT 45	279.59	338.44	99.32	104.14	19.83	339-14			· · · · · · ·	# - D - C)	11077	

S. S. BOFFING MEIGHT RESPONSIBILITY	2.3.6 Section 46	34 46				•				4		
MISSILE BY 446-448 BATE 7-24-63		NEXPENDED	9			EXPENDED	•			TOTAL		
A M FUNCTIONAL LISTING	7	90	93 1	90 >	7	e ce	90 1	95 >	7	9 T	20	9 >
RAC		•	;						10.13	410-47	100.77	122.05
02 COVERS + CAPS R	10.33	410.41		122.85								
MEAT PROTECTION					0.	406.71	15.60	124.90	9.	408.71	15.60	124.90
	4.22	408.72	86.42	123.48	. 50	409.21		124.90	4.72		86.33	123.63
COVERS + CAPS	15.48	413.10	112.79	122.17					15.48	413.10	112.79	17771
MEAT PROTECTION						**		121.51	00.1	4112.04	113.12	
5110	6.13	401.35	113,11	123.14	1.42	434.464	112.53	123.67	6.54		112.90	123.26
AFXC	•											
Z	;								22.11	437.31		
12 EQUIPMENT + HIRE	22.17	437.31	40.00	118.22	1.86	480.33	90.10	90.10 105.22	6.63	479.42	90.76	107.22
			•									
MACHINE DESCRIPTION OF THE PROPERTY.												
										36.4.74	112,21	120.43
2	7.02	384.74	112-21	120.43					70.7	• • • • • • • • • • • • • • • • • • • •	,,,,,,,,	
ė	1. 14	473.66	110.64	117.21					1.34	413.66	110.64	117.21
SO CABLE PROV + 1451C PRO	1.34		111.65	117.00	.12	483.24	483.24 112.70 116.74	116.74	1.46	480.99	111.73	
		!										
S												
;												
27 SILO EXTERNAL	:		000	000					.23	359.00	100.00	359.00 100.00 100.00
	• • •	334.00	224.00 100.00 100.00									
SAN DANGE TO THE PARTY OF THE P												
4												
SA MEAN BOOTETAIN												
39 ALLELENDARIES SOFFONS												
I												
										•		
43 BASE WEAT PROTECTION												
45 MISCELLANEUUS												
47 CONTINGENCY												
49 UNACCOUNTED												
SI COLUMN TOTAL SECT 46	74.62	424.53	96.70	96.70 119.48	5.50	441.67	49.61	117.50	90.15	425.71	98.77	98.77 119.34
SB SECTION TOTAL						Produce	5-787-1-50	At man 24				

Mark Field Mark M	2.5 BOEING MEIGHT RESPONSIBILITY	2.3.7	Section 47 red	5			~				•		
MARCH LISTING. MART PROTECTION MART PA	19 2-4-63		UNEXPEND	60			EXPENDE	<u>.</u>			TOTAL		
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		*				5				5			9 >
March Marc	COVERS + CAPS	1.46	466.34	15.91	2					1.46	466.34	15.97	124.31
CONTEST CAPE AND ECTION CONTEST CAPE AND ECTION CONTEST CAPE AND ECTION CONTEST CAPE AND ECTION CONTEST CAPE AND ECTION CONTEST CAPE AND ECTION CONTEST CAPE AND ECTION CONTEST CAPE AND ECTION CONTEST CAPE AND ECTION CONTEST CAPE AND ECTION CONTEST CAPE AND ECTION CONTEST CAPE AND ECTION CONTEST CAPE AND ECTION CONTEST CAPE AND ECTION AN	MEAT PROTECTION					.20	467.50	95.80		.29	467.50		
######################################	AERO COVERS + CAPS	7 00 ° 9	467.47	114.99	124.1	•	467.50	9 2 9 0		• • •	467.47	-	
STRONG CONTINUENT LINE CONTINU	HEAT PROTECTION						464.30	115, 10		86.	486.30		126.
INSTRUCT PROTECTION 10.39	S I LO AERO	2.04	467.94	115.16	126.26	98	46.30	115.30		2.90	487.45		126.
### ### ### ### ### ### ### ### ### ##	AMSTRUMENT AT I ON												
######################################		•	491.28	95.43		ì	8			16.52	491.28	6 0 5 4	121
### ### ### ### ### ### ### ### ### ##		•	487.73	96.6		•	•		n		•		:
SILO MEST PROTECTION SECTION 13.55 117.27 SECTION 13.55 117.27 SECTION 13.55 117.27 SECTION 14.29 505.65 123.55 117.27 SECTION 15.50 SE													
6-C INSTALLATION 6-C INSTALLATION 6-C INSTALLATION 6-C INSTALLATION 6-C INSTALLATION 6-C INSTALLATION 6-C INSTALLATION 7-C 506-50 123-50 117-27 6-6-C 506-50 123-70 117-20 6-C 6-C 506-50 123-70 117-20 6-C 6-C 506-50 123-70 117-20 6-C 6-C 506-50 123-70 117-20 6-C 6-C 506-50 123-70 117-20 6-C 6-C 506-50 123-70 117-20 6-C 6-C 506-50 123-70 117-20 6-C 6-C 506-50 123-70 117-20 6-C 6-C 6-C 6-C 6-C 6-C 6-C 6-C 6-C 6-C													
G-C INSTALLATION C-CALE PROVE THE TOTAL T	2												
A455 MET PROTECTION 2-46 506-20 123-75 117-27 3-45 MET PROTECTION 2-46 506-20 123-75 117-27 3-45 MET PROTECTION 2-46 506-20 123-75 117-27 3-45 MET PROTECTION 3-46 506-20 123-75 117-27 3-45 MET PROTECTION 3-46 506-20 123-75 117-27 3-46 506-20 123-75 117-27 3-46 506-20 123-75 117-27 3-46 506-20 123-75 117-27 3-46 506-20 123-75 117-27 3-46 506-20 123-75 117-27 3-46 506-20 123-75 117-27 3-46 506-20 123-75 117-27 3-46 506-20 123-75 117-27 3-46 506-20 123-75 3-46 506-20											•		
STATE OF THE PROTECTION 2.46 506.20 123.70 117.20 5.10 506.20 123.70 117.20 5.10 506.20 123.70 117.20 5.10 506.20 123.70 117.20 5.10 506.20 123.70 5.10 5.10 5.10 5.10 5.10 5.10 5.10 5.1		;	505.65	123.55	117.27					4.29	505.65	123.55	
SILCH MET PROTECTION SILCH MET PROTECTION SILCH MET PROTECTION WASFITSONED 14.56 509.91 100.67 SILCH MET PROTECTION SILCH MET		~	206.20	123.70	117.20	**	\$04.20	123-70	117.20	3.10	200.20	123.70	7.11
SEPARATION NECH. 14.58 509-91 103-85 112.59 SEPARATION NECH. 14.58 509-91 103-85 112.59 SEPARATION NECH. 14.58 509-91 103-85 112.59 SEPARATION NECH. 14.50 489-12 99-33 98-46 SEPARATION NECH. 14.50 489-12 99-33 98-46 SEPARATION NECH. 14.50 489-12 99-33 98-46 SEPARATION NECH. 14.50 489-12 99-33 98-46 SEPARATION NECH. 14.50 489-12 99-33 98-46 SEPARATION NECH. 14.50 489-12 99-33 98-46 SEPARATION NECH. 14.50 489-12 99-33 98-46 SEPARATION NECH.	:												
SEPARATION NECH. 14.58 901-91 103-85 112.59 NEAT PROTECTION SILO EXTENDAL 14.50 489-12 90-33 98-46 5.39 489-90 99-30 98-40 3-88 489-90 99-30 SEPARATION NECH. AREO SEPARATION NECH. 14.50 489-12 90-33 98-46 5.39 489-90 99-30 98-40 100-37 100	7	0	488.09	49,03	100-67					237.98	488.09	99.93	100
#EAT PROTECTION SILO EXTENNAL	SEPARATION MECH		16.605	103.65	112.59					14.58	509.91	103.85	112.
\$100 EXTERNAL \$100 EXTERNAL \$100 EXTERNAL \$100 EXTERNAL \$100 EXTERNAL \$100 EXTERNAL \$100 EXTERNAL \$110 EXTERNAL \$1	MEAT PROTECTION							;		•			
AERO AERO AERO AERO AERO SILO INTERNAL SEPAR, MECH STACE SEPAR, MECH PEEL MET PROTECTION SILO AERO AERO AERO AERO AERO AERO AERO AER								49.30					
### ##################################		•	489-12	99.33		7. 34	467.70	100.10	_	53.61	487.67		
JETISONE JEPAN, MECH STAGE SEPAN, MECH STAGE BASE BASE BASE BASE BASE BASE BASE BAS		•			• • • • • • • • • • • • • • • • • • • •	0.00			•			•	
SEPAR. MECH.— STAGE SEPAR. MECH.— PEEL MEAT PROTECTION SILO AERO AACELEMOMETER SUPPORT MEAT DEFLECTOR 1MSTL. BASE MEAT PROTECTION SILO MEAT PROTECTION MISCELLANGUS CONTINGENCY UNACCOUNTED COLUMN TOTAL SECT 47 FWO 361.06 469.23 100.51 103.74 15.64 490.51 100.09 103.57 377.50 409.29 100.53	*												
SEPAR. NECH. PEEL NEAT PROTECTION AGE AGCELEWOWFER SUPPORT AGCELEWOWFER SUPPORT AGCELEWOWFER SUPPORT AGCELEWOWFER SUPPORT AGCELEWOWFER SUPPORT BASE WEAT PROTECTION SILO HEAT PROTECTION ANSCELLANEOUS CONTINGENCY UNACCOUNTED COLUMN TOTAL SECT 47 FUO 361.86 489.23 100.51 103.74 15.44 490.51 100.89 103.57 377.50 489.29 100.53													
MEAT PROTECTION SILO ACCELEMOMETER SUPPORT MEAT DEFLECTOR INSTL. DESLECTOR INST. DESLECTOR INST. DESLECTOR INST. DESLECTOR INST. DESLECTOR INST. DESLECTOR INST. DESLECTOR INST. DESLECTOR INST. DESLECTOR INST. DESLECTOR INST. DESLECTOR INST. DESLECTOR INST. DESLECTOR INST. DESLECTOR INST. DESLECTOR INST. DESLECTOR IN													
ACCELEMONETER SUPPORT MEAT DEFLECTOR INST. DEFLECTOR + STRUC. DASE HEAT PROTECTION SILD HEAT PROTECTION NISCELLANEOUS CONTINGENCY UNACCOUNTED COLUMN TOTAL SECT 47 FWD 361.86 489.23 100.51 103.74 15.44 490.31 100.89 103.57 377.50 489.29 100.53													
AGECELEKOMETER SUPPORT MEAT DEFLECTOR INSTL. DEFLECTOR INSTL. DASE HEAT PROTECTION SILO MEAT PROTECTION MISCELLANGOUS CONTINGENCY UMACCOUNTED COLUMN TOTAL SECT 47 FWD 361.84 489.23 100.51 103.74 15.44 490.51 100.89 103.57 377.50 489.29 100.53													
ACCELEKOMETER SUPPORT MEAT DEFLECTOR INSTL. DEFLECTOR 1 STRUC. DASE MEAT PROTECTION SILO MEAT PROTECTION MISCELLAMEOUS CONTINGENCY UNACCOUNTED COLUMN TOTAL SECT 47 FWD 361.86 489.23 100.51 103.74 15.64 490.51 100.89 103.57 377.50 489.29 100.53													
ACCELEKOMETER SUPPORT MEAT DEFLECTOR INSTL. DEFLECTOR 1 INSTL. DEFLECTOR 1 STRUC. DASE MEAT PROTECTION SILO MEAT PROTECTION MISCELAMEOUS CONTINGENCY UNACCOUNTED COLUMN TOTAL SECT 47 FWD 361.86 489.23 100.51 103.74 15.64 490.51 100.89 103.57 377.50 489.29 100.53													
MEAT DEFLECTOR INSTL. DEFLECTOR + STRUC. DASE HEAT PROTECTION SALO WEAT PROTECTION NISCELLANGUS CONTINGENCY UNACCOUNTED CALUMN TOTAL SECT 47 FWD 361.86 480.23 100.51 103.74 15.64 490.51 100.89 103.57 377.50 489.29 100.53													
DEFLECTOR + STRUC. BASE WEAT PROTECTION \$11.0 MAT PROTECTION NISCELLANEOUS CONTINGENCY UNACCOUNTED COLUMN TOTAL SECT 47 FWD 361.86 489.23 100.51 103.74 15.64 490.51 100.89 103.57 377.50 489.29 100.53													
\$11.0 MEAT PROTECTION NISCELLANEOUS CONTINGENCY UNACCOUNTED COLUMN TOTAL SECT 47 FWD 361.86 489.23 100.51 103.74 15.64 490.51 100.89 103.57 377.50 489.29 100.53													
MISCELLANEOUS CONTINGENCY UNACCOUNTED COLUMN TOTAL SECT 47 FND 361.86 489.23 100.51 103.74 15.64 490.51 100.89 103.57 377.50 489.29 100.53													
CONTINGENCY UNACCOUNTED COLUMN TOTAL SECT 47 FWD 361.86 489.23 100.51 103.74 15.64 490.51 100.89 103.57 377.50 489.29 100.53	Ī											•	
UMACCOUNTED COLUMN TOTAL SECT 47 FWD 361.86 489.23 100.51 103.74 15.64 490.51 100.89 103.57 377.50 489.29 100.53	4 CONTINGENCY												
UMACCOUNTED COLUMN TOTAL SECT 47 FWD 361.86 489.23 100.51 103.74 15.64 490.51 100.89 103.57 377.50 489.29 100.53			,										
COLUMN TOTAL SECT 47 FWD 361.86 489.23 100.51 103.74 15.64 490.51 100.89 103.57 377.50 489.29 100.53	g UMACCOUNTED												
TELLINE TOTAL		361.	469.23	100.51	103.74	15.64	490.51	100.89	103.57	377.50	489.29	100.53	103.73

Beeing D2-14787-2 Page 15

2.3 BOEING WEIGHT RESPONSIBILITY MISSILE BY 146-148	SPONSIBILITY 46-448	2.3.8 Section	Section 47 Aft				-				•		
DATE	7-24-63		UNEXPENDED	090			EXPENDED				TOTAL		
LM FUNCTIONAL LISTING	LISTING	¥	20 2	90 7	90 >	7	9 1	95 1	90 ^	7	93 =	95 _	90 >
OL RACEMAYS OZ COVERS + CAPS		16.	522.27	83.03	129.44					••	\$22.27	13.03	129.44
O3 MEAT PROTEC						•0•	\$22.30	62.90	129.60	8.	\$22.30	82.90	
		29.	521.39	13.31	128.87	. 52	\$22.30	95.30		1.14	521.81	116.84	129.20
06 COVERS + CAPS 07 HEAT PROTECTION			214.00	10.61	167.10) •)))	•	
		•	418,00	418.05 117.05 120.48	129.48	11.	519.10	117.10	129.71	11.20	519.10	117.18	129.71
10	3 0	•	D	•) · · · · · · · · · · · · · · · · · · ·	;) .) .)))	•	1	! !
=	•		•	;							611,00	46.34	118.88
AN ROUNTER + WIRE	WIRE		211.67	10.0									
	E - JETT.												
15 BASE HEAT PROJETT.	RO JETT.												
16 SILO MEAT PROTEC	ROTECTION												
ö	NOI	į								•		4.1	97 66
	+ INSTL PRO	90.	226.00	526.00 115.90 127.60	127.60					•	94.00 113.40 147.60	113.40	09-/21
A CILO LEAT B	GASE SEAT PROJECTION												
7	NO. 101												
•	٥	71.35	519.69	90.66	93.97					71.35	819.69	49.08	93.97
	HECH.	23.53	511.66	102.58	105.19					23.53	211.66	102.58	
26 MEAT PROTECTION	NOI A					1.46	618.00	00,70		1.45	518,00	99. 70	
	744	F. A. A.	519.97	69.63	97.95		518.00	99.70	97.70	2.46	519.74	99.64	97.92
		,)	•	•	
	RNAL										•		
Ī													
32 SEPAR. MECH STAGE	- STAGE												
33 SEPAR. MECH PEEL	PEEL												
	5												
								•					
											•		
34 ACCELEROMETER SUPPORT	SUPPORT									•			
Ĭ	R INSTL. STRUC.											•	
43 DASE MEAT PROTECTION	ROTECTION									•			
i	AOTECTION												
45 MISCELLANEUUS													
47 CONTINGENCY													
44 UNACCOUNTED													
90 SI COLUMN TOTAL SECT 47 AFT	SECT 47 AFT	113.04	517.49	99.17 100.02	100.02	3.08	\$10.93	91.52	98.52 107.96	116.92	517.53	99.15	99.15 100.23
											,		
SS SECTION TOTAL SECT	SECT 47	475.70	436.00	494.00 100.19 102.85	102.05	10.72	495.19 100.50 104.29	100.50	104.29	494.45	495.97 100.20	100.20	102.90

Booing D2-14787-2 Page 16

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2.3 BOEING WEIGHT RESPONSIBILITY MISSEL BY MACANA	2.3.9 South	etion 48				>				>			
DATE 7-24-63		UNEXPENDED	E 0			EXPENDED	<u>.</u>			TOTAL			
	7	9 *	90 1	9 >	5	95	95 1	9 >	5	9 I	90	9 >	
	**	61 467	8	120,12					23.35	637.12	83.00	129.32	
COVERS + CATS	43.33		3							,			•
\$110 \$110					2.55	650.35	82.91	129.54	2.55	650.35	16.28	129.54	
AERO	8.49	632.09	82.95	129.42	1.33	24-629			27.50	633.52	-	129.64	
OF COVERS + CAPS U	06-17	70.00											
\$110				,	2.78	644.75	117.21	129.17	2.78		117.21	129.77	
	5.54	133.25	117.14	129.65	1.40	627-01	117.26	18.621	•	44.16			
PACTE INFINITATION											•		
•	23.43	438.33	13.54	120.66	1	i		:	23.43	638.33	83.54	128.66	
	2.23	111.42	106.86	112.54		171.54	106.12	771.54 106.82 112.12	2.5	7			
													_
AN BASE MEAN PROCEEDS					10.	170.66	106.13	770.66 106.13 112.74		170.86	106.13	112.7	
17 DESTRUCT PROVISION	6.39	540.24	540.24 116.39 128.43	128.43					6.39	540.24	116.39		
j													
SO ALLO MEAT PROTECTION													
20 AERO										•			
=													
NO SEPAR. MECH STAGE													
						-							
Se AERO													
39 ACCELERONETER SUPPORT													
41 MEAT DEFLECTOR INSTL.									:	;			
	16.31	796-42	2000	100.00	**	100.44	200	000	15.01	700,40			
	2	184.13	3			789.72	00		56.	789.72	00.00		
AS BISCELLANEOUS					})))					
47 CONTINGENCY													
49 UNACCOUNTED													
SO COLUMN TOTAL SECT AS	115.14	462.07	96.33	123.56	14.42	105.87	100.65	705.87 100.45 117.05	129.56	****	98.59 122	122.03	
ST SECTION TOTAL					3	etne D2-1	D2-14787-2	Page 17					

Beeing D2-14787-2 Page 17

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MISSILE BY 446-448 DATE 7-24-63	340	OMEXPENDED	E 0			EXPENDED	۵			TOTAL		
FUNCT 10	*	9 2	د دو	90 >	5	9	90 1	90 A	=	9 1	95 7	90 ^
•	1.00	751.52	83.49	128.51					1.00	751.52	83.49	128.51
MEAT PROTECTION R SILO	;	:	•		•1•	151.30	13.40	126.60	.10	751.30	3.40	128.60
AO As • Caps	 88:	751.52	116.51	120.51					1.00			15.651
MEAT PROTECTION O SILO AEMO	\$	751.30	116.60	128.60	:	751.30 116.60 128.40	116.60	120.60	.50	751.30	110.60	128.60
BISTRUMENTATION EQUIPMENT + BIRE BASE HEAT PROTECTION	7.36	770.15	85.28 92.84	127.56 126.03	1.69	762.00	94.34 125.	125.41	7.36	710.15	93.14	127.56
EQUIP + WIRE - JETT. DASE MEAT PROJETT. SILO MEAT PROTECTION DESTRUCT PROVISION					*	761.67	95.25	125.00	**	761.47	95.25	125.00
G+C INSTALLATION CABLE PROV + INSTL PRO BASE HEAT PRUTECTION SILO HEAT PROTECTION	4.25	776-12	110.89	128.52 129.08	1.24	770.51	117.41	128.67	3.4	776-12 770-41 772-00	118.89 117.61 117.50	128.52 128.94 129.50
TRUCTURE	151.92	766.12	101.00	101.01					151.02	766.12	101-00	101.01
SEPARATION MECH. MEAT PROTECTION SILO EXTERNAL MACAO	20.69	771.96	100.00	99.60 98.71	11.07 2.99	767.10 767.10 768.13	100.00		0.44	767.10		99.30
SILO INTERNAL JETTISONED SEPAR, MECH STAGE SEPAR, MECH PEEL MEAT PROTECTION SILO					* **	766.13	00.10	9 •	en .			
DASE												
ACCELERONETER SUPPORT												
MEAT DEFLECTOR INSTL- DEFLECTOR + STRUC. DASE MEAT PROTECTION. SILO MEAT PROTECTION MISCELLANEOUS										·		
CONTINGENCY												
UNACCOUNTED												
COLUMN TOTAL SECT 49	247.49	766.78	4.78 100.50 102.95	102.95	59.43	767.63	100.26	767.63 100.26 100.39	306.42	766.95	100.45	102.45
92 93 SECTION TOTAL MISSILE TOTAL	10000	451.00		10.66 105.04	127.07	505.23 100.12	100.12	103.82	1707.16	161.91	99.72	104.95